

- * SWBAT differentiate between mass, weight, and volume
- * SWBAT observe the tendencies of objects

Sep 6-2:31 PM

Welcome!!!

SECA Physics
Thursday 1 October 2015

- * Pick up: **H. Leslie Grebe**
 - whiteboard, marker, & eraser
 - slip of paper (for later)

Opening Activity:

Objects at rest tend to stay at rest.

Objects in motion tend to stay in motion.

What should we call this tendency???

INERTIA



Centering...

Sep 7-7:04 AM

NEWTON'S 1ST LAW

MATTER

Objects at rest tend to stay at rest.

Objects in motion tend to stay in motion.

INERTIA is the name for the tendency of matter to resist changes.
PROPERTY

<http://www.youtube.com/watch?v=bebSxF0rr5I>

- Bill Nye theme
- Discuss side board

LESLIE: INERTIA IS

STUDENTS: MATTER RESISTING CHANGE

Sep 20-1:38 PM

CONFUSING QUANTITIES

MASS IS A MEASURE OF INERTIA HOW HARD IT IS TO PUSH OR PULL
↳ KILOGRAMS (kg)

WEIGHT IS A FORCE DUE TO GRAVITY
↳ NEWTONS (N)
(also pounds)

$$W = m \cdot g$$

ON EARTH

VOLUME HOW MUCH SPACE DOES SOMETHING TAKE UP.
↳ CUBIC METERS (m³)
↳ LITER (L)

Sep 27-3:00 PM

How about some practice...

1. If I take this metal chunk to the moon
Will it change its ~~mass~~ weight ~~volume~~?
_{M W V}

2. If I crush an empty soda pop can
Will it change its ~~mass~~ ~~weight~~ volume?
_{M W V}

$$W = m \cdot D$$

3. If I flatten out a blob of Play Doh
Will it change its ~~mass~~ ~~weight~~ ~~volume~~?
_{M W V}
DIFFERENT SHAPE

ON EARTH WEIGHT ONLY CHANGES IF
MASS CHANGES

4. Which has more volume:
a pound of crumpled paper or a pound of metal?

5. Which has more weight: SAME
a pound of crumpled paper or a pound of metal?

6. Which has more mass: SAME
a pound of crumpled paper or a pound of metal?

Sep 21-2:13 PM

Now more individual practice...

Alone or with another person, work on the questions on the worksheet.

Use the terms, ask for help if you need it.

When you are finished:

* Make sure you understand the terms on the board.
(They will be erased for the 3 questions.)

Sep 24-7:36 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. _____ is the name for the tendency of matter to resist changes in its motion.

- A. Inertia
- B. Mass
- C. Weight
- D. Volume

2. If I crush an empty soda pop can, I am changing its

- A. Mass
- B. Weight
- C. Volume
- D. All of the above

3. What is the standard unit for mass?

- A. meters (m)
- B. kilograms (kg)
- C. newtons (N)
- D. None of the above

Sep 14-7:28 AM